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C O N F I D E N T I A L STATE 030402

FOLLOWING REPEAT STATE 030402 ACTION OLSD DATED 11 FEB 75

QUOTE

C O N F I D E N T I A L STATE 030402

E.O. 11652:GDS

TAGS: NO, ETEL, MARR

SUBJECT: EXPOSE OF NORWAY'S ACQUISITION OF LORAN AND OMEGA
SYSTEMS

REF: OSLO'S 548 AND 566

1. THE FOLLOWING STATEMENT CAN BE USED BY YOU OR BY THE
NORWEGIAN GOVERNMENT IN CONNECTION WITH ANY QUESTIONS OR
DISCUSSION OF THE LORAN-C SYSTEM AND US INVOLVEMENT
THEREIN:

2. BEGIN PARA ONE: THE UNITED STATES GOVERNMENT, ALONG
WITH OTHERS, HAS FOR THE PAST 35 YEARS BEEN DEVELOPING
NAVIGATIONAL SYSTEMS SUITABLE FOR WORLD-WIDE USE. THE
AREA OF COVERAGE WHERE RADIONAVIGATIONAL FACILITIES ARE
PROVIDED HAS BEEN EXPANDED TO COVER A LARGE EXPANSE OF
THE NORTHERN HEMISPHERE.

3. BEGIN PARA TWO: LORAN-A WAS THE FIRST UNIVERSAL LONG-
RANGE SYSTEM OF RADIONAVIGATION, PROVIDING ACCURACIES
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OF L TO 5 NAUTICAL MILES (NM). THIS SYSTEM WAS FOLLOWED BY LORAN-C, CAPABLE OF PROVIDING ACCURACIES OF ONE-QUARTER NM OR BETTER, AND WITH EXTENDED RANGES. IN THE UNITED STATES, LORAN-C HAS BEEN SELECTED AS THE GOVERNMENT-PROVIDED RADIONAVIGATION SYSTEM FOR THE COASTAL CONFLUENCE ZONE, THE ZONE EXTENDING OFFSHORE TO 50 NM OR TO THE

100 FATHOM CURVE, WHICHEVER IS FARTHER. THE LORAN-C SYSTEM IS IN OPERATION ON THE US EAST COAST AND IS CURRENTLY BEING READIED FOR INSTALLATION ON THE WEST COAST OF THE UNITED STATES AND THE GULF OF ALASKA, WITH AN ON-AIR DATE OF JANUARY 1, 1977, LATER TO BE FOLLOWED BY INSTALLATIONS ON THE GULF OF MEXICO AND IN THE GREAT LAKES. DURING THE PROCESS OF LORAN-C INSTALLATION, LORAN-A WILL GRADUALLY BE PHASED OUT. THIS INSTALLATION AND PHASE-OUT PROCESS WAS FORMALLY ANNOUNCED BY THE SECRETARY OF TRANSPORTATION ON MAY 16, 1974.

4. BEGIN PARA THREE: THE LORAN SYSTEMS ARE HYPERBOLIC RADIONAVIGATION SYSTEMS, RELATIVELY SIMPLE FOR THE NAVIGATOR TO USE, AND, DUE TO CURRENT STATE-OF-THE-ART TECHNIQUES, COMPARATIVELY INEXPENSIVE, A RECEIVER COSTING IN THE VICINITY OF 3 TO 5 THOUSAND DOLLARS. THE NAVIGATOR, IN USING THE SYSTEM, RECEIVES SIGNALS FROM LORAN CHAIN STATION PAIRS, WHICH FURNISH A LINE OF POSITION. TWO SUCH READINGS (LINE OF POSITION) WILL PRODUCE THE APPROXIMATE POSITION OF THE NAVIGATOR, OR A FIX. COMPLEMENTING THE LORAN-C SYSTEM IS THE WORLD-WIDE OMEGA SYSTEM OF RADIONAVIGATION. IT WILL PROVIDE RADIONAVIGATION AT LONG RANGES THROUGHOUT THE WORLD AND IS CAPABLE OF ACCURACIES COMPARABLE TO LORAN-A. THIS SYSTEM IS CURRENTLY UNDER CONSTRUCTION. RECEIVER COSTS ARE ALSO IN THE VICINITY OF 3 TO 5 THOUSAND DOLLARS. COMPLETION OF THIS SYSTEM IS ESTIMATED TO BE 1977/1978.

5. BEGIN PARA FOUR: THESE COMPLEMENTARY SYSTEMS, LORAN-C AND OMEGA, HAVE BROUGHT TO THE NAVIGATOR WIDER COVERAGE, LESS EXPENSIVE AND MORE ACCURATE SYSTEMS THAN HERETOFORE AVAILABLE, AND WITH FEWER STATIONS REQUIRED TO TRANSMIT THE SIGNALS. THEY ARE FREELY AVAILABLE FOR ALL TO USE.

6. BEGIN PARA FIVE: THE US COAST GUARD NOW FUNDS AND MANAGES THE LORAN-C SYSTEM, AND IS ACTIVELY ENGAGED IN LETTING THE PUBLIC KNOW ABOUT ITS OPERATIONS AND ADVANT-
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AGES. ONE OF THE INTENTIONS OF THE COAST GUARD IS TO PROMOTE NAVIGATIONAL SAFETY FOR THE WHOLE MARITIME COMMUNITY. END OF STATEMENT.

7. THE FOLLOWING Q'S AND A'S HAVE BEEN PREPARED SHOULD HE OVE INFORMATION ELICIT FURTHER QUESTIONING:

8. QUESTION: ARE THE LORAN AND OMEGA SYSTEMS DESIGNED FOR USE IN TARGETING? ANSWER: THE LORAN AND OMEGA SYSTEMS

WERE NOT DESIGNED FOR THIS PURPOSE. AS EXPLAINED ABOVE, THEY CONTRIBUTE TO INCREASED NAVIGATIONAL SAFETY FOR ALL USERS, AND ARE AVAILABLE TO ANY VESSEL OF ANY NATIONALITY WHICH CHOOSES TO INVEST \$3000 TO \$5000 IN A SOLID-STATE LORAN RECEIVER. THESE RECEIVERS ARE FREELY AVAILABLE ON THE OPEN MARKET. LORAN-C, OMEGA, DECCA, CELESTIAL NAVIGATION AND THE COMPASS ARE ALL SYSTEMS TO ASSIST A

NAVIGATOR IN LOCATING HIS POSITION. THESE SYSTEMS ARE ALL NAVIGATION AIDS. THEY ARE USED BY ALL NATIONS: IN COMMERCE, FISHING, COASTAL AND AIR PATROL, BY MILITARY AND CIVIL MARINERS AND AIRMEN. THE SOVIET UNION ALSO EMPLOYS THE LORAN C SYSTEM AND HAS CONSTRUCTED LORAN AND OMEGA INSTALLATIONS ON THEIR TERRITORY WHICH PERFORM THE SAME NAVIGATIONAL FUNCTIONS.

9. QUESTION: BUT ARE THESE SYSTEMS USED FOR TARGETING?

ANSWER: NO. INGERSOLL

UNQUOTE

INGERSOLL

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